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<110> Expression Technologies Inc.

<120> De novo synthesized plasmid, methods of making and use thereof

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<170> PatentIn version 3.1

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tctacacata tattcgcaag atgtggcgtg ttacggtgaa aacctggcct atttccttaa  
1740

agggtttatt gagaatatgt ttttcgtctc agccaatccc tgggtgagtt tcaccagttt  
1800

tgatttaaac gtggccaata tggacaactt cttcgccccc gttttcacca tgggcaaata  
1860

ttatacgcaa ggcgacaagg tgctgatgcc gctggcgatt cagggttcac atgccgtctg  
1920

tgatggcttc catgtcggca gaatgcttaa tgaattacaa cagtactgcg atgagtggca  
1980

gggcggggcg taattttttt aaggcagtta ttggtgccct taaacgcctg gtgctacgcc  
2040

tgaataagtg ataataagcg gatgaatggc agaaattcga aagcaaattc gaccgggtcg  
2100

tcggttcagg gcagggtcgt taaatagccg cttatgtcta ttgctggttt accggtttat  
2160

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2191

<210> 36

<211> 1992

<212> DNA

<213> artificial sequence

<220>

<223> A de novo synthesized plasmid

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120

gtggtttgtt tgccggatca agagctacca actctttttc cgaaggtaac tggcttcagc  
180

agagcgcaga taccaaatac tgtccttcta gtgtagccgt agttaggcca ccacttcaag  
240

aactctgtag caccgcctac atacctcgct ctgctaatac tgttaccagt ggctgctgcc  
300

agtggcgata agtcgtgtct taccgggttg gactcaagac gatagttacc ggataaggcg  
360

cagcggtcgg gctgaacggg gggttcgtgc acacagccca gcttggagcg aacgacctac  
420

accgaactga gataacctaca gcgtgagcta tgagaaagcg ccacgcttcc cgaagggaga  
480

aaggcggaca ggtatccggt aagcggcagg gtcggaacag gagagcgcac gagggagctt  
540

ccagggggaa acgcctggta tctttatagt cctgtcgggt ttcgccacct ctgacttgag  
600

cgtcgatttt tgtgatgctc gtcagggggg cggagcctat ggaaaaacgc cagcaacgcg  
660

gcctttttac ggttcctggc cttttgctgg ccttttgctc acatgttctt tcctgcgtta  
720

tcccctgatt ctgtggataa ccgtattacc gcctttgagt gagctgatac cgctcgccgc  
780

agccgaacga ccgagcgcag cgagtcagtg agcgaggaag cggaaggcgg ggcgcccggg  
840

cggcggggcga agccactgga gcacctcaaa aacaccatca tacactaaat cagtaagttg  
900

gcagcatcac ccgacgcact ttgcgccgaa taaatacctg tgacggaaga tcacttcgca  
960

gaataaataa atcctgggtgt ccctgttgat accgggaagc cctgggccaa cttttggcga  
1020

aaatgagacg ttgatcggca cgtaagaggt tccaactttc accataatga aataagatca  
1080

ctaccgggcg tattttttga gttatcgaga ttttcaggag ctaaggaagc taaaatggag  
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aaaaaaatca ctggatatac caccgttgat atatcccaat ggcacgtaa agaacatttt  
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gaggcatttc agtcagttgc tcaatgtacc tataaccaga ccgttcagct ggatattacg  
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1800

taaggcagtt attggtgccc ttaaaccgct ggtgctacgc ctgaataagt gataataagc  
1860

ggatgaatgg cagaaattcg aaagcaaatt cgacccggtc gtcggttcag ggcagggtcg  
1920

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1980

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1992

<210> 37  
<211> 1906  
<212> DNA  
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120

tcgaaggttc tctgagctac caactctttg aaccgaggta actggcttgg aggagcgcag  
180

tcacccaaaac ttgtcctttc agtttagcct taaccggcgc atgacttcaa gactaactcc

240

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360

acagtccagc ttggagcgaa ctgcctaccc ggaactgagt gtcaggcgtg gaatgagaca  
420

aacgcggcca taacagcgga atgacaccgg taaaccgaaa ggcaggaaca ggagagcgca  
480

cgaggagacc gccaggggga aacgcctggg atctttatag tctgtcggg ttctgccacc  
540

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600

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660

tccgccccgt tcgtaagcca tttccgctcg ccgcagtcga acgaccgagc gtagcgagtc  
720

agtgagcgag gaagcggaag gcggggcgcc cgggcggcgg gcgaagccac tggagcacct  
780

caaaaacacc atcatacact aaatcagtaa gttggcagca tcacccgacg cactttgcgc  
840

cgaataaata cctgtgacgg aagatcactt cgcagaataa ataaatcctg gtgtccctgt  
900

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960

aggttccaac tttcaccata atgaaataag atcactaccg ggcgtatttt ttgagttatc  
1020

gagattttca ggagctaagg aagctaaaat ggagaaaaaa atcactggat ataccaccgt  
1080



tgatatatcc caatggcatc gtaaagaaca ttttgaggca tttcagtcag ttgctcaatg  
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1200

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1260

ggaattccgt atggcaatga aagacggtga gctggtgata tgggatagtg ttcacccttg  
1320

ttacaccgtt ttccatgagc aaactgaaac gttttcatcg ctctggagtg aataccacga  
1380

cgatttccgg cagtttctac acatatattc gcaagatgtg gcgtgttacg gtgaaaacct  
1440

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1500

gagtttcacc agttttgatt taaacgtggc caatatggac aacttcttcg ccccgtttt  
1560

caccatgggc aaatattata cgcaaggcga caagggtgctg atgccgctgg cgattcaggt  
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1800

aattcgaccc ggtcgtcggt tcagggcagg gtcgttaaata agccgcttat gtctattgct  
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 240

tctaaatcaa ttaccagtgg ctgctgccag tgggtgctttt gcatgtcttt ccgggttgga  
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ctcaagacga tagttaccgg ataaggcgca gcggtcggac tgaacggggg gttcgtgcat  
 360

acagtccagc ttggagcgaa ctgcctaccc ggaactgagt gtcaggcgtg gaatgagaca  
 420

aacgcggcca taacagcgga atgacaccgg taaaccgaaa ggcaggaaca ggagagcgca  
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cgagggagcc gccaggggga aacgcctggt atctttatag tcctgtcggg tttcgccacc  
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 600

gctttgccgc ggccctctca cttccctggt aagtatcttc ctggcatctt ccaggaaatc  
 660

tccgccccgt tcgtaagcca tttccgctcg ccgcagtcga acgaccgagc gtagcgagtc  
720

agtgagcgag gaagcggaat atatcctgta tcacatattc tgctgacgca ccggtgcagc  
780

cttttttctc ctgccacatg aagcacttca ctgacaccct catcagtgcc aacatagtaa  
840

gccagtatac actccgctag cgctgaggtc tgccctcgtga agaaggtggt gctgactcat  
900

accaggcctg aatcgcccca tcattccagcc agaaagtgag ggagccacgg ttgatgagag  
960

ctttgttgta ggtggaccag ttggtgattt tgaacttttg ctttgccacg gaacggtctg  
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cgttggcggg gcgcccgggc ggcgggcggt ctcattgttg acagcttatt atcgataagc  
1080

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1200

tggttatgcc ggtactgccg ggctcttgc gggatatcgt ccattccgac agcatcgcca  
1260

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1320

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1380

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1440

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1500

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1860

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1920

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1980

gcatggcggc cgacgcgctg ggctacgtct tgctggcggt cgcgacgcga ggctggatgg  
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2100

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2580

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<211> 2315

<212> DNA

<213> artificial sequence

<400> 39

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120

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180

tcaccaaaac ttgtcctttc agtttagcct taaccggcgc atgacttcaa gactaactcc  
240

tctaaatcaa ttaccagtgg ctgctgccag tgggtgctttt gcatgtcttt ccgggttgga  
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ctcaagacga tagttaccgg ataaggcgca gcggtcggac tgaacggggg gttcgtgcat  
360

acagtccagc ttggagcgaa ctgcctaccc ggaactgagt gtcaggcgtg gaatgagaca  
420

aacgcggcca taacagcgga atgacaccgg taaaccgaaa ggcaggaaca ggagagcgca  
480

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600

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960

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1080

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ccttgcatgc accattcctt gcggcgggcg tgctcaacgg cctcaaccta ctactgggct  
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1920

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1980

accttgctctg cctccccgcg ttgcgtcgcg gtgcatggag ccgggccacc tcgacctgaa  
2040

tggaagccgg cggcacctcg ctaacggatt caccactcca agaattggag ccaatcaatt  
2100

cttgccggaga actgtgaatg cgcaaacc aa ccttggcag aacatatcca tcgcgtccgc  
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2220

catgatcgtg ctccctgtcgt tgaggacccg gctaggctgg cgggggttgcc ttactggtta  
2280

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<211> 2267

<212> DNA

<213> artificial sequence

<220>

<223> A de novo synthesized plasmid

<400> 40

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120

tcgaagggtc tctgagctac caactctttg aaccgaggta actggcttgg aggagcgcag  
180

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240

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360

acagtccagc ttggagcgaa ctgcctaccc ggaactgagt gtcaggcgtg gaatgagaca  
420

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540

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660

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1080

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1200

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1920

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1980

tcctgatatg aataaattgc agtttcattt gatgctcgat gagtttttct aatcagaatt  
2040

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2100

tgaataaatc gaacttttgc tgagttgaag gatcagatca cgcattctcc cgacaacgca  
2160

gaccgttccg tggcaaagca aaagttcaaa atcaccaact ggtccaccta caacaaagct  
2220

ctcatcaacc gtggtccct cactttctgg ctggatgatg gggcgat  
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<210> 41

<211> 1982

<212> DNA

<213> artificial sequence

<220>

<223> A de novo synthesized plasmid

<400> 41

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120

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180

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240

tctaaatcaa ttaccagtgg ctgctgccag tgggtgctttt gcatgtcttt ccgggttgga  
300

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acagtccagc ttggagcgaa ctgcctaccc ggaactgagt gtcaggcgtg gaatgagaca  
420

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